

Updated 10/26/2015

BMC Emerging Infectious Disease (EID) Precautions in Patient Isolation Unit (PIU)

Personal protective equipment utilized in the PIU will be based on public health recommendations from the Centers for Disease Control and Prevention for the infectious agent in question. When patients are admitted for observation after exposure (but no sign of infection) to a highly communicable infectious disease, a graduated approach will be used with regard to the choice of PPE, moving from standard to advanced. The timing of the escalation in PPE will be based on the infectious agent and patient condition.

Roles and responsibilities

Two staff will be assigned to each patient.

-**Primary care giver** will monitor patient in the room, perform clinical care and communicate with “buddy” in the anteroom.

-The “**buddy**” or the second staff member will serve as in assistance of clinical care and as an extra observer during donning and doffing. The buddy will stay in the anteroom unless needed in the patient room for a particular patient care activity. If, at any time, the buddy was required to have contact with body fluids either by direct contact with the patient or by assisting in the doffing of grossly contaminated PPE, a third person must suit up to monitor the procedures in the ante room.

-The **PPE site manager** will be available to observe and assist with prevention of contamination, and to monitor the integrity of PPE during donning, and especially doffing. The PPE site manager will ensure proper movement of waste and clinical samples from the patient room into the ante room and at the point of pick up at the door of the PIU. The site manager will also monitor the usage of PPE and secure new hoods to each helmet to prepare them for immediate use.

-The **shift supervisor** will remain in the work room and record vitals of all healthcare workers who have entered the PIU.

Donning Your PPE

Prepare to Don your PPE - Prior to entering the work room

<input type="checkbox"/>	Before entering the suite- check outside gauges for integrity of air flow.
<input type="checkbox"/>	Report to the shift supervisor.
<input type="checkbox"/>	Gather your personal protective equipment (PPE): paper scrubs, socks, crocs, bouffant head cover (optional), non-sterile long nitrile gloves (1 pair), surgical gloves (1pair), impervious coverall suit, foot covers, MaxAir PAPR with hood, belt and a plastic apron. All PPE should be counted. You should have a total of 10.

<input type="checkbox"/>	Prepare to enter the room for a prolonged time. Use the rest room and hydrate with water before donning PPE.
<input type="checkbox"/>	Remove all jewelry, ID, pens, pagers, etc.
<input type="checkbox"/>	Change into paper scrubs, socks and CROCS.

Don your PPE - In the work room, prior to entering the ante room

<input type="checkbox"/>	Wash your hands.
<input type="checkbox"/>	Put on your first set of gloves (choose the correct size, long nitrile gloves).
<input type="checkbox"/>	Put on a bonnet head covering (optional)
<input type="checkbox"/>	Put on your coverall. Ensure that your thumb is inserted into the elastic thumb support. Make sure your heels are all the way into the foot of the coverall. Roll up the hood inside your collar. Do not zip up your coverall suit here.
<input type="checkbox"/>	Put on your foot covers. Take care to tuck any extra suit material around your feet into the booties
	You are now ready to enter the anteroom

Finish donning your PPE - In the ante room with site manager assistance

<input type="checkbox"/>	Site manager will place the PAPR belt around your waist & clip your PAPR battery pack to the belt. Make sure the battery is on the left front of your body to make it easier to plug in the helmet. Make sure to wrap extra belt completely and securely around your waist
<input type="checkbox"/>	Plug In - Plug the PAPR helmet cord into the PAPR battery pack at your waist (this will turn on the air).
	Put On - Site manager will help you place the assembled PAPR helmet and hood on your head. Turn the knob at the back of the unit to ensure that the helmet fits snugly on your head. Test the helmet fit to ensure the helmet cannot be moved freely on your head. If your helmet is too loose it may shift position while you are bending, moving, or during doffing.
<input type="checkbox"/>	Zip Up - Zip up your coveralls- tucking in the cord of the PAPR in your belt
<input type="checkbox"/>	Tie Up - Site manager will assist you in tying the hood ties around your neck in a loose bow on the front of the hood.
<input type="checkbox"/>	Site manager will assist you to don your plastic apron. o Gently expand the opening for your head and carefully pull the apron over your PAPR helmet. o Put your arms into the sleeves of apron making sure to place the thumb of your gloved hand into the thumb hole on the apron sleeve.

PAPR Specifications:

There are three speeds to the PAPR fan. Adjust the switch the desired speed (high recommended for prolonged use). Status indicator lights for your PAPR battery and filter will appear above the visor of your face shield.

□ _Green - Fully charged and ready for use (8 hours of battery life).

□ _Yellow - Warning that you will soon need to recharge the battery or change the filter

□ _Red - Do not use. Give the unit to the PPE manager and don a different unit.

Doff Your PPE

Doffing begins in the patient room and is completed in the designated area in the ante room.

Doffing steps in the patient room

<input type="checkbox"/>	At the end of your shift or when you are ready to leave the patient room, indicate or communicate to the buddy in the ante room and the site manager via Voicera.
<input type="checkbox"/>	In non emergent settings, ensure that no areas of obvious contamination are left behind.
<input type="checkbox"/>	Take your time, move slowly and purposefully while removing your PPE.
<input type="checkbox"/>	Step onto the doffing chemical pad inside the patient room near the exit.
<input type="checkbox"/>	Clean your outer gloves utilizing automatic hand sanitizer dispenser.
<input type="checkbox"/>	Step into the first doffing zone in patient room.
<input type="checkbox"/>	Holding the support bar with one hand, use your other hand remove your booties and place them in the dedicated red bag container inside the room.
<input type="checkbox"/>	Clean your outer gloves again.
<input type="checkbox"/>	Remove your apron - Grasp your apron close to the shoulders and pull forward away from your body breaking the ties in the back as you pull. Take care that the apron does not touch the floor and moving slowly, remove the plastic apron by rolling it inside out as you progress down your arms to your wrist and PAUSE there.
<input type="checkbox"/>	Making a fist, carefully remove the outer gloves with the apron and discard them in the red bag waste.
<input type="checkbox"/>	Clean your inner gloves with the hand sanitizer.
<input type="checkbox"/>	<div><input type="checkbox"/> Remove your coveralls<ul style="list-style-type: none">o Carefully reach under the PAPR hood with one hand, open the zipper flap on the front of your coverall, and pull down the zipper.o Grasp the coverall at the shoulders. Touching only the outside of the suit, shimmy your shoulders out of the suit and slowly pull the suit off your arms.o With your feet, step on the foot section of the coverall and use a marching motion to move the coverall down your legs.</div> <div>O Step into the second doffing zone near patient room door.</div> <div><ul style="list-style-type: none">o Pick up coveralls slowly, touching the inside only and discard in red waste container next to the doffing area in the ante room.</div>
<input type="checkbox"/>	Clean inner gloves with hand sanitizer
<input type="checkbox"/>	Open the patient room door and step out to the doffing chemical mat just outside the patient room in the ante room.
<input type="checkbox"/>	<div>Remove your PAPR<ul style="list-style-type: none">o Untie the hood carefully with one hando Grasp both sides of the hood at your temples and unsnap the hood from</div>

	<p>the PAPR helmet.</p> <ul style="list-style-type: none"> o Grasp and pinch the face shield of the hood. Pull forward to release the hood from the helmet pin o Grasp the top of the hood and rock the hood backwards first then pull forward removing the hood in one motion.
<input type="checkbox"/>	Discard the hood in the red bag waste.
<input type="checkbox"/>	Clean inner gloves with hand sanitizer
<input type="checkbox"/>	Using the beaking method, remove inner gloves. Discard into the red bag waste.
<input type="checkbox"/>	Step off the doffing mat and walk to the sink in the anteroom to perform hand hygiene.
<input type="checkbox"/>	Remove your PAPR helmet, belt, and battery and give them to the site manager.
<input type="checkbox"/>	Step into the shower room.
<input type="checkbox"/>	Step out of your CROCS and paper scrubs and shower. Don clean paper scrubs provided in the room.
<input type="checkbox"/>	PPE/Site Manager will log you out of the room.
<input type="checkbox"/>	Shift supervisor will take your vitals after you exit the unit.
<input type="checkbox"/>	Shower, hydrate and rest.